

a¹ July 30, 1996, now U.S. Patent No. 5,770,029. The foregoing U.S. Patent Applications are hereby incorporated herein by reference in their entirety.

Please delete the paragraph starting on page 6, line 30, and replace it with the following paragraph:

a² The structures may take a variety of different shapes; they may, for example, be including disc-like or card-like, and they may be layered or laminated "sandwich" structures.

Representative shapes for such structures are further described in, for example, U.S. Patent Applications Serial Nos. 08853,661 and 08/715,338 and U.S. Patent Nos. 5,750,015 and 5,770,029.

Please delete the paragraph starting on page 7, line 15, and replace it with the following paragraph.

a³ Both the base and cover substrates can be fabricated using any convenient methodology, such as molding, casting, extrusion sheet forming, calendaring, thermoforming, and the like.

Suitable base and cover substrates for use in the subject invention are further described in U.S. Pat. Applications Serial Nos. 08/853,661 and 08/715,338 and U.S. Patent Nos. 5,750,015 and 5,770,029.

Please delete the paragraph starting on page 8, line 8, and replace it with the following paragraph.

a⁴ Base 12 has a planar surface 13 in which a microchannel structure is formed, including intersecting linear microchannels 21, 23. At the ends of the channels holes 22, 24, 26, 28 are bored through, to provide reservoirs for fluids to be moved within the channels. Techniques for forming the microchannel structure in the base plate are disclosed, for example, in U.S. Patent Application Ser. No. 08/853,661. The microchannels as formed in the base plate are open, that is, absent a cover apposed to the channel-bearing surface 13 of the base plate, the microchannels are not fully enclosed.